AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

- (Previously Presented) A device for transport of molecules or energy across or into a biological barrier comprising:
 - a plurality of microneedles, each microneedle formed of a first material and a second material
- wherein the second material comprises rigid particles which are dispersed homogeneously throughout at least a portion of the first material or forms a portion of the microneedle and enhance the mechanical strength of the microneedles compared to microneedles formed without the second material
- 2. (Original) The device of claim 1, wherein the first material is a polymer.
- 3. (Original) The device of claim 2, wherein the polymer is a biodegradable polymer.
- 4. (Original) The device of claim 3, wherein the polymer is selected from the group consisting of poly(lactide)s, poly(glycolide)s, poly(lactide-co-glycolide)s, polyanhydrides, polyorthoesters, polyetheresters, polycaprolactones, polyesteramides, poly(butyric acid)s, poly(valeric acid)s, polyhydroxyalkanoates, degradable polyurethanes, copolymers thereof, and blends thereof.
- 5. (Original) The device of claim 2, wherein the polymer is a non-biodegradable polymer.
- (Original) The device of claim 1, wherein the first material, the second material, or both, comprise a metal.
- 7. (Original) The device of claim 1, wherein the first material, the second material, or both, comprise molecules to be released.

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- 8. (Original) The device of claim 7, wherein the molecules to be released comprise a drug.
- 9. (Original) The device of claim 8, wherein the drug is a vaccine.
- 10. (Cancelled)
- 11. (Cancelled)
- 12. (Original) The device of claim 1, wherein the second material is a salt or other leachable particle.
- 13-21. (Cancelled)
- 22. (Previously Presented) The device of claim 1, further comprising a substrate from which the plurality of microneedles extend.
- 23. (Previously Presented) The device of claim 1, wherein the microneedles have lengths between about 10 and 500 microns.
- 24. (Previously Presented) The device of claim 23, wherein the microneedles have widths between about 10 and 500 microns.
- 25-54. (Cancelled)
- 55. (New) A device for transport of molecules or energy across or into a biological barrier comprising:
- a plurality of microneedles, each microneedle formed of a polymer and a second material, wherein the second material comprises rigid particles which are dispersed homogeneously throughout at least a portion of the polymer or forms a portion of the microneedle and enhance

the mechanical strength of the microneedles compared to microneedles formed without the second material.

- (New) The device of claim 55, further comprising a substrate from which the plurality of microneedles extend.
- 57. (New) The device of claim 55, wherein the polymer is a biodegradable polymer.
- 58. (New) The device of claim 57, wherein the second material comprises a drug.
- (New) A device for transport of molecules or energy across or into a biological barrier comprising:
- a plurality of microneedles, each microneedle formed of a first material and a second material, wherein the second material comprises rigid particles which are dispersed homogenously throughout at least a portion of the polymer or forms a portion of the microneedles and enhances the mechanical strength of the microneedles compared to microneedles formed without the second material; and
 - a substrate from which the plurality of microneedles extend.
- 60. (New) The device of claim 59, wherein the first material is a biodegradable polymer.
- 61. (New) The device of claim 60, wherein the second material is a drug.